

EX PARTE OR LATE FILED

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

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SEP 28 1994

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FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

In the Matters of:

Amendment of the Commission's
Rules to Establish Rules and
Policies Pertaining to Mobile-
Satellite Service and Radio
Determination Satellite Service
in the 1610-1626.5 MHz and
2483.5-2500 MHz Bands

CC Docket No. 92-166

DOCKET FILE COPY ORIGINAL

EX PARTE NOTICE

Pursuant to Section 1.1206 of the Commission's rules and regulations, Motorola Satellite Communications, Inc. ("Motorola") hereby reports that on September 28, 1994, representatives of Motorola met with Lauren J. Belvin in Commissioner Quello's office regarding matters reflected in the Comments and Reply Comments filed by Motorola in the above-captioned proceeding. Also discussed during these meetings was the Joint Proposal and Settlement Agreement submitted to the Commission on September 9, 1994, as well as matters reflected in the attached viewgraphs.

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Copies of this notice are being filed with the Secretary and are being sent to the
FCC personnel listed above.

Respectfully submitted,

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Its Attorneys

cc: Lauren J. Belvin (Rm 802)



MOTOROLA

FCC TIME LINE

- Dec. 1990 APPLICATION FILED TO CONSTRUCT, LAUNCH AND OPERATE IRIDIUM SYSTEM**
- June 1991 OTHER APPLICATIONS FILED**
- March 1992 INTERNATIONAL ALLOCATION OF GLOBAL MSS SPECTRUM (WARC-92)**
- Dec. 1992 EXPERIMENTAL LICENSES GRANTED**
- Nov. 1993 DOMESTIC ALLOCATION OF GLOBAL MSS SPECTRUM**
- Dec. 1993 SECTION 319(D) WAIVER REQUESTED BY MOTOROLA TO MAINTAIN CONSTRUCTION SCHEDULE**
- Jan. 1994 FCC'S PROPOSED LICENSING AND SERVICE RULES**
- July 1994 STAFF DEFERS RULING ON WAIVER REQUESTS**
- Oct. 1994 REPORT & ORDER ADOPTING BIG LEO RULES**
- Jan. 1995 LICENSING OF BIG LEOS**

SEP 28 1994



MOTOROLA

NEED FOR EXPEDITIOUS LICENSING

- **MAINTAIN U.S. LEADERSHIP IN SATELLITE TECHNOLOGY**
- **IMPROVE U.S. BALANCE OF TRADE**
- **CONVERT DEFENSE INDUSTRY TO COMMERCIAL APPLICATIONS**
- **CREATE SUBSTANTIAL NUMBER OF NEW HIGH TECH JOBS**
- **STAY AHEAD OF FOREIGN COMPETITIVE SYSTEMS**
- **ASSIST IN ATTRACTING FINANCING AND GLOBAL PARTNERS**



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POSITIONS OF BIG LEO APPLICANTS

- **FOUR-WAY AGREEMENT**
 - MOTOROLA
 - TRW
 - CONSTELLATION
 - MCHI (ELLIPSAT)
- **NOT PARTIES TO AGREEMENT**
 - LORAL/QUALCOMM
 - AMSC



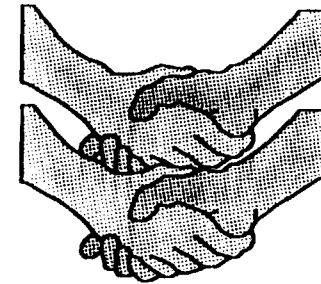
MOTOROLA

NEED FOR LEO ONLY RULE

- **PROVISION OF GLOBAL MSS BY LEO SYSTEMS**
- **LEO MSS IS EMERGING TECHNOLOGY**
- **GEO'S WOULD INTERFERE WITH LEO'S OPERATING IN THE SAME BANDS**
- **COMPETITION ENHANCED**
 - **AMSC DOES NOT NEED MORE SPECTRUM**
 - **AMSC DOES NOT PROPOSE GLOBAL MSS**

Essential Terms of Four-Way Agreement

- **Band segmentation plan***
- **Resolution of Glonass issue**
- **Globalization of band plan**
- **Relaxed qualification standards**
- **Section 319(d) waivers**
- **Out-of-band emissions mask**



* **Loral / Qualcomm has filed letter supporting agreement on band plan and lack of mutual exclusivity among applicants**



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BAND SEGMENTATION PLAN

- **FCC BAND PLAN (TDMA=5.15 MHZ; CDMA=11.35 MHZ)**
- **TDMA AT TOP END OF L-BAND**
- **AGREEMENT NOT TO SWITCH MODULATION**
- **NON-GEOSTATIONARY BAND ONLY**
- **IF ONLY ONE CDMA SYSTEM BECOMES OPERATIONAL**
 - **3.1 MHZ OPEN TO BOTH CDMA AND TDMA SYSTEMS**
- **AVOIDANCE OF MUTUAL EXCLUSIVITY**



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SECTION 319(D) WAIVERS

- **CONDITIONAL WITHDRAWAL OF OBJECTIONS TO PENDING WAIVER REQUESTS**
 - **NO OBJECTION TO MOTOROLA RAISING TIMING OF WAIVERS WITH THE FCC AND NEED FOR EXPEDITIOUS ACTION**
- **AGREEMENT NOT TO OPPOSE FUTURE WAIVER REQUESTS**



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OUT-OF-BAND EMISSIONS MASK

- **PRIVATE NEGOTIATIONS FOLLOWED BY
FCC DECISION IF NO AGREEMENT**
- **PROTECTION OF UPLINKS AND
DOWNLINKS**
 - **TO THE MAXIMUM EXTENT PRACTICABLE**
- **EQUITABLE SHARING OF BURDEN OF
ANY GUARD BAND BETWEEN BAND
SEGMENTS**



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GLOBALIZATION OF BAND PLAN

- **CONDITION OPERATING LICENSES OF ALL MSS SYSTEMS**
 - **U.S. BAND PLAN OVER NORTH AMERICA**
 - **DIFFERENT BAND PLAN OVER REST OF WORLD**
 - » **6.75 MHZ FOR TDMA**
 - » **9.75 MHZ FOR CDMA**
 - **TIME LIMIT ON THIS RESTRICTION (EARLIER OF)**
 - » **TWO YEARS AFTER FIRST SYSTEM OPERATIONAL**
 - » **WHEN SECOND SYSTEM OPERATIONAL**
- **FCC WOULD ATTEMPT TO COORDINATE INTERNATIONALLY ON THIS BASIS**
- **NO EXCLUSIVE ARRANGEMENTS OUTSIDE US**



MOTOROLA

GLONASS

- **AGREEMENT WITH OTHER APPLICANTS ON PROCESS FOR DEALING WITH GLONASS**
- **U.S./RUSSIAN BILATERAL COORDINATION MEETINGS**
- **U.S./RUSSIAN SUMMIT MEETING**
- **FCC REPORT & ORDER**
- **RTCA RECEIVER SPECIFICATIONS**



MOTOROLA

RADIO ASTRONOMY SERVICE AGREEMENT

- **NATIONAL RADIO ASTRONOMY
OBSERVATORY (NRAO)**
 - OPERATES GREENBANK, WV & SOCORRO, NM
- **COOPERATIVE EXPERIMENTAL TEST
PROGRAM**
 - TO CONFIRM PFD LIMITS OVER RAS SITES
- **NRAO WILL SCHEDULE OBSERVATIONS TO
AVOID, TO THE GREATEST EXTENT
POSSIBLE, PEAK TRAFFIC PERIODS**
- **MOTOROLA AGREES TO PROVIDE AIR
INTERFACE TO EACH RAS SITE**
 - FOR LOOKING THROUGH IRIDIUM SYSTEM DOWNLINK
BURST TRANSMISSIONS